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PATENT
Atty. Docket No.:
CIBT-P10-203

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In re Application of: Scott et al.

Serial No.: 09/754,032

Filed: 03-Jan-2001

Title: PATCHED GENES AND USES
RELATED THERETO

Group Art Unit: 1646

Examiner: Not Yet Assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

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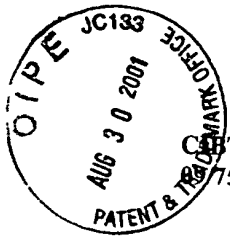
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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

Submitted herewith on Form PTO-1449 is a list of documents known to Applicants, their Agent and/or Attorney in compliance with the requirements of 37 C.F.R. 1.56. A copy of each document listed is also being submitted herewith.

This Information Disclosure Statement is being filed before the mailing of the first office action on the merits; therefore, no fee is due.



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754,032

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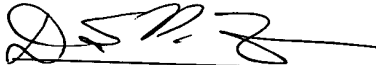
Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached Form PTO-1449.

This submission does not represent that a search has been made or that no better art exists. Nor does it constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there are any fees due in connection with the filing of this Statement, please charge the fees to our **Deposit Account, No. 18-1945**.

Respectfully submitted,
Ropes & Gray

By: 
David Halstead, Ph.D.
Reg. 44,735
Agent for Applicants

Dated: 8/28/01
Customer No. 28120
Ropes & Gray
One International Place
Boston, MA 02110-2624
Voice: (617) 951-7000
Facsimile: (617) 951-7050

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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	5798209	25-Aug-1998	Chan	435	6	26-May-1995
AB	5837538	17-Nov-1998	Scott	435	325	06-Oct-1995
AC	5935810	10-Aug-1999	Friedman et al.	435	69.1	30-Nov-1994

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO
AD	WO9611260	18-Apr-1996	PCT	C12N	5/00	

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(Including Author, Title, Date, Pertinent Pages Etc.)

AE	Akimaru, H. et al., "Drosophila CBP is a co-activator of cubitus interruptus in hedgehog signaling", Nature 386 (6626): 735-738 (1997).
AF	Akiyama, H. et al., "Cloning of a mouse smoothened cDNA and expression patterns of hedgehog signaling molecules during chondrogenesis and cartilage differentiation in conal mouse EC cells, ATDC5", Biophys Res. Comm., 235(1): 142-147 (1997).
AG	Alberts, eds., Molecular Biology of the Cell, G-10 (1994).
AH	Alcedo, J. et al., "The Drosophila smoothened gene encodes a seven-pass membrane protein, a putative receptor for the hedgehog signal", Cell, 86 (2): 221-232 (1996).
AI	Alcedo, J. and Noll, M., "Hedgehog and its patched-smoothened receptor complex: a novel signaling mechanism at the cell surface", Biol. Chem., 378 (7): 583-590 (1997).
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AK	Bale, A., "Variable expressivity of patched mutations in flies and humans", Am. J. Human Genet., 60 (1): 10-12 (1997).
AL	Bellusci, S. et al., "Involvement of Sonic hedgehog (Shh) in mouse embryonic lung growth and morphogenesis", Development, 124 (1): 53-63 (1997).
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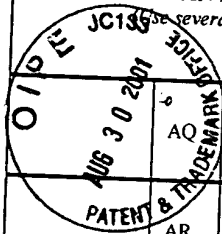
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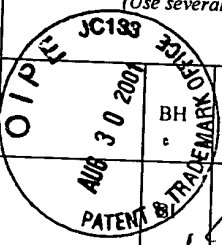
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AR	Chanut, F. and Heberlein, U., "Role of the morphogenetic furrow in establishing polarity in the <i>Drosophila</i> eye", <i>Development</i> , 121 (12): 4085-1094 (1995).
AS	Chavrier et al., "The complexity of the Rab and Rho GTP-binding protein subfamilies revealed by a PCR cloning approach", <i>Gene</i> 112: 261-264 (1992).
AT	Chen, E. et al., "Compartmental organization of the <i>Drosophila</i> genital imaginal disks", <i>Development</i> , 124 (1): 205-218 (1997).
AU	Chen, Y. et al., "Dual roles for patched in sequestering and transducing Hedgehog", <i>Cell</i> , 87(3): 553-563 (1996).
AV	Concordet, J. et al., "Spatial regulation of a zebrafish patched homologue reflects the roles of sonic hedgehog and protein kinase A in neural tube and somite patterning", <i>Development</i> , 122 (9): 2835-2846 (1996).
AW	Dhawan et al., "Systematic Delivery of Human Growth Hormone by Injection of Genetically Engineered Myoblasts", <i>Science</i> 254: 1509-1512 (1991).
AX	Dominguez, M. et al., "Sending and receiving the hedgehog signal: control by the <i>Drosophila</i> Gli protein cubitus interruptus", <i>Science</i> , 272 (5268): 1621-1625 (1996).
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BC	Gailani et al., "Developmental Genes and Cancer: Role of Patched in Basal Cell Carcinoma of the Skin", <i>J. Nat. Canc. Inst.</i> 89 (15): 1103-1109 (1997).
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BF	Goodrich, L. et al., "Altered neural cell fates and medulloblastoma in mouse patched mutants", <i>Science</i> , 277 (5329): 1109-1113 (1997).
BG	Goodrich, L. et al., "Conservation of the hedgehog/patched signaling pathway from flies to mice: induction of a mouse patched gene by Hedgehog", <i>Genes Dev.</i> , 10 (3): 301-312 (1996).

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	BH	Grindley, J. et al., "Evidence for the involvement of the Gli gene family in embryonic mouse lung development", Dev. Biol., 188 (2): 337-348 (1997).			
	BJ	Habuchi, et al., "Detailed deletion mapping of chromosome 9q bladder cancer: evidence or two tumour suppressor loci", Oncogene, 11:1671-1674 (1995).			
	BK	Hahn, H. et al., "A mammalian patched homolog is expressed in target tissues of sonic hedgehog and maps to a region associated with development abnormalities", J. Biol. Chem., 271 (21): 12125-12128 (1996).			
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	BM	Hepker, J. et al., "Drosophila cubitus interruptus forms a negative feedback loop with patched and regulates expression of Hedgehog target genes", Development, 124 (2): 549-558 (1997).			
	BN	Hidalgo, A. and Ingham, P., "Cell patterning in the Drosophila segment: spatial regulation of the segment polarity gene patched", Development, 110: 291-301 (1990).			
	BO	Hooper et al., "The Drosophila patched gene encodes a putative membrane protein required for segmental patterning", Cell 59: 751-765 (1989).			
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	BQ	Ingham, "Hedgehog points the way", Curr. Biol. 4: 347-350 (1994).			
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	BU	Jiang, J. et al., "Protein kinase A and hedgehog signaling in Drosophila limb development", Cell, 80 (4): 563-572 (1995).			
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BW	Johnson, R. et al., "Human homolog of patched, a candidate gene for the basal cell nevus syndrome", Science, 272 (5268): 1668-1671 (1996).				
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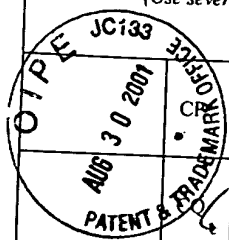
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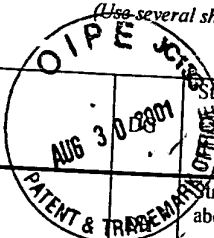
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	CS	Phillips, R. et al., "The Drosophila segment polarity gene patched is involved in a position signalling mechanism in imaginal discs", Development, 110: 105-114 (1990).
	CT	Quinn, A. et al., "Chromosome 9 allele loss occurs in both basal and squamous cell carcinomas of the skin", J. Invest. Dermatology, 102: 300-303 (1994).
	CU	Quinn, A. et al., "Delineation of two distinct deleted regions on chromosome 9 in human non-melanoma skin cancers", Genes, Chromosomes & Cancers, 11:222-225 (1994).
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	CW	Roelink, H. et al., "Floor plate and motor neuron induction by <i>vhh-1</i> , a vertebrate homolog of hedgehog expressed by the notochord", Cell, 76: 761-775 (1994).
	CX	Rogers, G. et al., "Patched gene mutation screening in patients with basal cell nevus syndrome using bidirectional dideoxy fingerprinting", J. Invest. Dermatol. Abstracts, 108(4): 598, # 364, (1997).
	CY	Roush, W., "Hedgehog's patterning call is patched through, smoothly", Science, 274 (5291): 1304-1305 (1996).
	CZ	Sanicola, M. et al., "Drawing a stripe in Drosophila imaginal disks: negative regulation of decapentaplegic and patched expression by engrailed", Genetics, 139 (2): 745-756 (1995).
	DA	Schuske, K. et al., "Patched overexpression causes loss of wingless expression in Drosophila embryos", Dev. Biol., 164 (1): 300-301 (1994).
	DB	Shilo, B., "Tumor suppressors. Dispatches from patched", Nature, 382 (6587): 115-116 (1996).
	DC	Simcox, A. et al., "Imaginal discs can be recovered from culture embryos mutant for the segment-polarity genes engrailed, naked and patched but not from wingless", Development, 107: 715-722 (1989).
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	DF	Spradling et al., "Transposition of Cloned P Elements into <i>Drosophila</i> Germ Line Chromosomes", Science 218: 341-347 (1982).

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EXAMINER

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